

Jason A. Young

*Education*

Sc. B. (Honors), Physics, Brown University, Providence, RI (2001)

Ph. D., Physics, University of California, San Diego (2007)

*Research Interests*

Measurements of electron impact induced excitation, ionization, dissociation, and emission from molecules and atoms relevant to planetary atmospheres

Production and manipulation of particle beams for novel spectroscopic measurements, e.g., positrons, photons, atomic species, metastables, and radicals

*Professional experience*

Caltech Postdoctoral Scholar, Science Division, Jet Propulsion Laboratory (2008-present)

Postdoctoral Researcher, University of Nevada Las Vegas, working at the Advanced Light Source in Lawrence Berkeley National Lab (2007-2008)

Laboratory Instructor, University of California, San Diego (2002-2004)

Teaching Assistant, University of California, San Diego (2003)

*Selected Awards*

Caltech Postdoctoral Scholar (2008-present)

Summer Research Fellowship at University of California, San Diego (2002)

University of California Regents Fellowship (2001-2002)

Brown University UTRA Fellowship (2000)

National Science Foundation (NSF) Summer Stipend at Rutgers University (1999)

*Selected Publications*

J. A. Young, and C. M. Surko, “Feshbach-resonance-mediated positron annihilation in small molecules.” Phys. Rev. A, 78, 032702 (2008).

J. A. Young, G. F. Gribakin, and C. M. Surko, “Role of combination vibrations in resonant positron annihilation.” Phys. Rev. A, 77, 060702(R) (2008).

J. A. Young, and C. M. Surko, “Feshbach-resonance mediated annihilation in positron interactions with large molecules,” Phys. Rev. A, 77, 052704 (2008).

- J. A. Young and C. M. Surko, “Dependence of resonant positron-molecule annihilation on molecular temperature,” Nucl. Instrum. and Meth. B, 266, 478-482 (2008).
- J. A. Young and C. M. Surko, “Role of binding energy in Feshbach-resonant positron-molecule annihilation,” Phys. Rev. Lett. 99, 133201 (2007).
- L. D. Barnes, J. A. Young, and C. M. Surko, “Energy-resolved Positron Annihilation Rates for Molecules,” Phys. Rev. A 74, 012706 (2006).
- J. A. Young and C. M. Surko, “Charged Particle Motion in Spatially Varying Electric and Magnetic Fields,” Nucl. Instrum. and Meth. B, 247, 147 - 154 (2006).
- J. P. Marler, L. D. Barnes, S. J. Gilbert, J. P. Sullivan, J. A. Young, and C. M. Surko, “Experimental Studies of the Interaction of Low-energy Positrons with Atoms and Molecules,” Nuclear Instrum. and Meth. B, 221, 84-92 (2004).